

RIVKIN, S.L., kand.tekhn.nauk; AKHUNDOV, T.S., inzh.

Experimental study of the specific volumes of water.  
Teploenergetika 9 no.1:57-65 Ja '62. (MIRA 14:12)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Water)  
(Steam)

37559

S/C96/62/000/005/006/009  
E194/E454

1800

AUTHORS: Rivkin, S.L., Candidate of Technical Sciences  
Akhundov, T.S., Engineer

TITLE: An experimental determination of the density of heavy water at high pressures and temperatures

PERIODICAL: Teploenergetika, no.5, 1962, 62-65

TEXT: The VTI has been studying properties of heavy water for a number of years and earlier measurements of its density were published. In 1959 a new experimental procedure was devised to extend the range of the measurements. The procedure was first used to study the properties of ordinary water and this article gives results obtained with it for heavy water, 99.87% D<sub>2</sub>O. Density measurements were made on 16 isotherms between 275 and 425°C in the pressure range of 50 to 540 kg/mm<sup>2</sup>. The test results are tabulated and plotted. Within the range covered by G.D.Oliver and J.W.Grisard (J. Amer. Chem. Soc. v.78, no.3, 1956) agreement is within 0.015%. The sole previous results for high temperatures and pressures are those given by V.A.Kirillin and S.A. Ulybin (Teploenergetika, no.4, 1959) and the new results are

Card 1/2

An experimental determination ...

S/096/62/000/005/006/009  
E194/E454

generally within the limits of experimental error of the former (0.25%) except at a few special points near the saturation line where differences are up to 5%. There are 2 figures and 2 tables. X

ASSOCIATION: Vsesoyuznyy teplotekhnicheskiy institut  
(The All-Union Heat-Engineering Institute)

Card 2/2

RIVKIN, S.I., kand. tekhn. nauk; TROYANOVSKAYA, G.V., inzh.

Experimental study of unit volume of water in areas near a critical point. Teploenergetika 11 no.10:72-75 O '64.

1. Vsesoyuznyy teplotekhnicheskiy institut.

(MIRA 18:3)

RIVKIN, S.L., kand. tekhn. nauk; VINNIKOVA, A.N., inzh.

Heat capacity of ethyl alcohol in water at temperatures of 25-50° C.  
Teploenergetika 11 no.6:59-63 Je '64. (MIRA 1c.)

1. Vsesoyuznyy teplotekhnicheskiy institut.

RIVKIN, S.L.; TROYANOVSKAYA, G.V.; AKHYNDOV, T.S.

Experimental study of the specific volume of water from isochors  
close to the critical value. Teplofiz. vys. temp. 2 no.2:219-229  
Mr-Ap '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy  
institut imeni F.E. Dzerzhinskogo.

RIVKIN, S.L.; AKHUNDOV, T.S.

Determination of the critical specific volume. Izv. vys. ucheb.  
zav.; neft' i gaz 6 no.10:70 '63. (MIRA 17:3)

1. Vsesoyuznyy teplotekhnicheskiy institut.

RIVKIN, S.L.; SHINGAREV, M.R.

Experimental study of the heat capacity of aqueous solutions of ethyl alcohol in the supercritical region of the parameters of state. Teplofiz. vys. temp. 2 no.1:39-47 Ja-F '64. (MIRA 17:3)

1. Teplotekhnicheskiy nauchno-issledovatel'skiy institut im. F.E. Dzerzhinskogo.

RIVKIN, S.L.; AKHUNDOV, T.S.

Determination of the critical parameters of ordinary and heavy water. Teplofiz. vys. temp. 1 no.3:329-337 N-D '63. (MIRA 17:3)

i. Vsesoyuznyy teplotekhnicheskiy institut.

KAZAVCHINSKIY, Ya.Z., prof.; KESSEL'MAN, P.M., kand. tekhn. nauk;  
KIRILLIN, V.A., akademik; RIVKIN, S.L., kand. tekhn.  
nauk; SYCHEV, V.V., kand. tekhn. nauk; TIMROT, D.L.,  
prof.; SHEYNDLIN, A.Ye., prof.; SHPIL'RAYN, E.E., dots.;  
BUL'DYAYEV, N.A., tekhn. red.

[Heavy water; its thermophysical properties] Tiazhelaia  
voda; Teplofizicheskie svoistva. Moskva, Gosenergoizdat,  
(MIRA 17:2)  
1963. 255 p.

1. Nauchno-issledovatel'skiy institut vysokikh temperatur pri  
Moskovskom energeticheskem institute (for Kirillin, Sychev,  
Timrot, Sheyndlin, Shpil'rayn). 2. Vsesoyuznyy nauchno-  
issledovatel'skiy teplotekhnicheskiy institut imeni F.E.  
Dzerzhinskogo (for Rivkin). 3. Odesskiy institut inzhenerov  
morskogo flota (for Kazavchinskiy). 4. Odesskiy tekhnolog-  
cheskiy institut (for Kessel'man).

RIVKIN, S.L., kand. tekhn. nauk; AKHUNDOV, T.S., kand. tekhn. nauk

Experimental study of the specific volume of water at temperatures ranging from 374.15 to 500° C and pressures up to 600 kg./cm.<sup>2</sup>  
Teploenergetika 10 no.9:66-71 S '63. (MIRA 16:10)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Water--Thermal properties)

RIVKIN, S.L., kand.tekhn.nauk; YEGOROV, B.N., inzh.

Heat capacity and enthalpy of ethyl alcohol with concentration of 94 % (by weight) in the supercritical region of the parameters of state. Teploenergetika 10 no.6:74-76 Je '63. (MIRA 16:7)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Ethyl alcohol--Thermal properties)

RIVKIN, S.L.; AKHUNDOV, T.S.

Experimental determination of the specific volumes of heavy water  
at high pressures and temperatures. Atom. energ. 14 no.6:  
581-582 Je '63. (MIRA 16:7)  
(Deuterium oxide)

RIVKIN, S.L.; YEGOROV, B.N.

Heat capacity of heavy water at high pressures and temperatures.  
Atom. energ. 14 no.4:416-418 Ap '63. (MIRA 16:3)  
(Deuterium oxide) (Heat capacity)

RIVKIN, S.L., kand.tekhn.nauk; ZUPERMAN, D.A., inzh.

Magnetohydrodynamic method of direct conversion of heat energy  
into electric power. Energetik 10 no.10:1-6 0 '62. (MIRA 15:12)  
(Direct energy conversion)

RIVKIN, S.L., kand.tekhn.nauk; YEGOROV, B.N., kand.tekhn.nauk

Experimental study of the thermal capacity of heavy water in  
supercritical region of the parameters of state. Teploenergetika  
9 no.12:60-63 D '62. (MIRA 16:1)

1. Vsesoyuznyy teplotekhnicheskiy institut.  
(Deuterium oxide--Thermal properties)

LITVIN, Aleksandr Moiseyevich; KVASNIKOV, A.V., doktor tekhn. nauk,  
prof., retsenzent; RIVKIN, S.L., st. nauchnyy sotr., red.;  
BUL'DYAYEV, N.A., tekhn. red.

[Engineering thermodynamics] Tekhnicheskaiia termodinamika.  
Izd.4. perer. i dop. Moskva, Gosenergoizdat, 1963. 311 p.  
(MIRA 16:4)

1. Moskovskiy aviationsionnyy institut (for Kvasnikov).
2. Vsesoyuznyy teplotekhnicheskiy institut (for Rivkin).  
(Thermodynamics)

L 10678-63

EWT(m)/BDS--AFFTC/ASD

ACCESSION NR: AP3002268

S/0089/63/014/006/0581/0582

52

AUTHOR: Rivkin, S. L.; Akhundov, T. S.

TITLE: Experimental determination of specific volumes of heavy water at high pressures and temperatures

SOURCE: Atomnaya energiya, v. 14, no. 6, 1963, 581-582

TOPIC TAGS: heavy water, specific volume, high pressure, high temperature

ABSTRACT: Previous work of the first author is extended (Atomnaya energiya, v. 7, 1959, 457) to higher temperatures (275 to 425 degrees) and high pressures (50 to 340 kgm/square cube). Work was carried out at the Vsesoyuznyy teplotekhnicheskiy institut im. F. E. Dzerzhinskii (All-Union Heat-Engineering Institute). A new experimental apparatus was constructed. A detailed description of the method was published in Termoenergetika, no. 1, 1962, 57. A high degree of thermal stability (+0.005C), of temperature measurements (+0.1 to 0.02C), pressure (+0.01%) were achieved. The maximum error of measurements of specific volumes of heavy water is estimated 0.2 to 0.10%. Altogether, 335 values were obtained, including the measurements in the two-phase range. The values are given in a table. Orig. art. has: 1 figure and 1 table.

Card 1/1

PA - 2873

AUTHOR: Not given  
TITLE: Dissertations (July-December 1956). Department for Physical-  
Mathematical Science. (Zashchite dissertazii. Otdelenie fisiko-  
matematicheskikh nauk, Russian)  
PERIODICAL: Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 4, pp 132-132  
(U.S.S.R.)  
Received: 5 / 1957  
Reviewed: 7 / 1957

ABSTRACT: The following dissertations were submitted at the Institute for Crystallography for the purpose of obtaining the Academic degree of "Candidate of Physical and Mathematical Sciences":  
E.D.DUKOVA: "Experimental Research of the Stratified Spiral Growth of Crystals of the Gaseous Phase".  
At the Physical-Technical Institute:  
S.M.RIVKIN: "Investigation of the Behavior of Unbalances Current Carriers (Experimental Investigation of the Process of Motion, Generation, Recombination of Non-Balanced Current Carriers)"  
E.I.AGISHEV: "Non-Magnetic Momentum-Mass-Analyzers".  
V.G.BOLCHEV: "The Investigation of the Thermoelectronic and Repeated Electron Emission in the Solid and Liquid State of Brass, Silver, and Germanium as well as in Tin."

Card 1/2

PA - 2873

Dissertations (July-December 1956). Department for Physical-Mathematical Science.

I.I.NOVAK: "The Use of Infrared Spectroscopy for the Investigation of Some Types of Intermolecular Interaction".

L.K.PEKER: "The Properties of Atomic Nuclei in the Case of Low Energy Excitation."

ASSOCIATION: Not given

PRESENTED BY:

SUBMITTED:

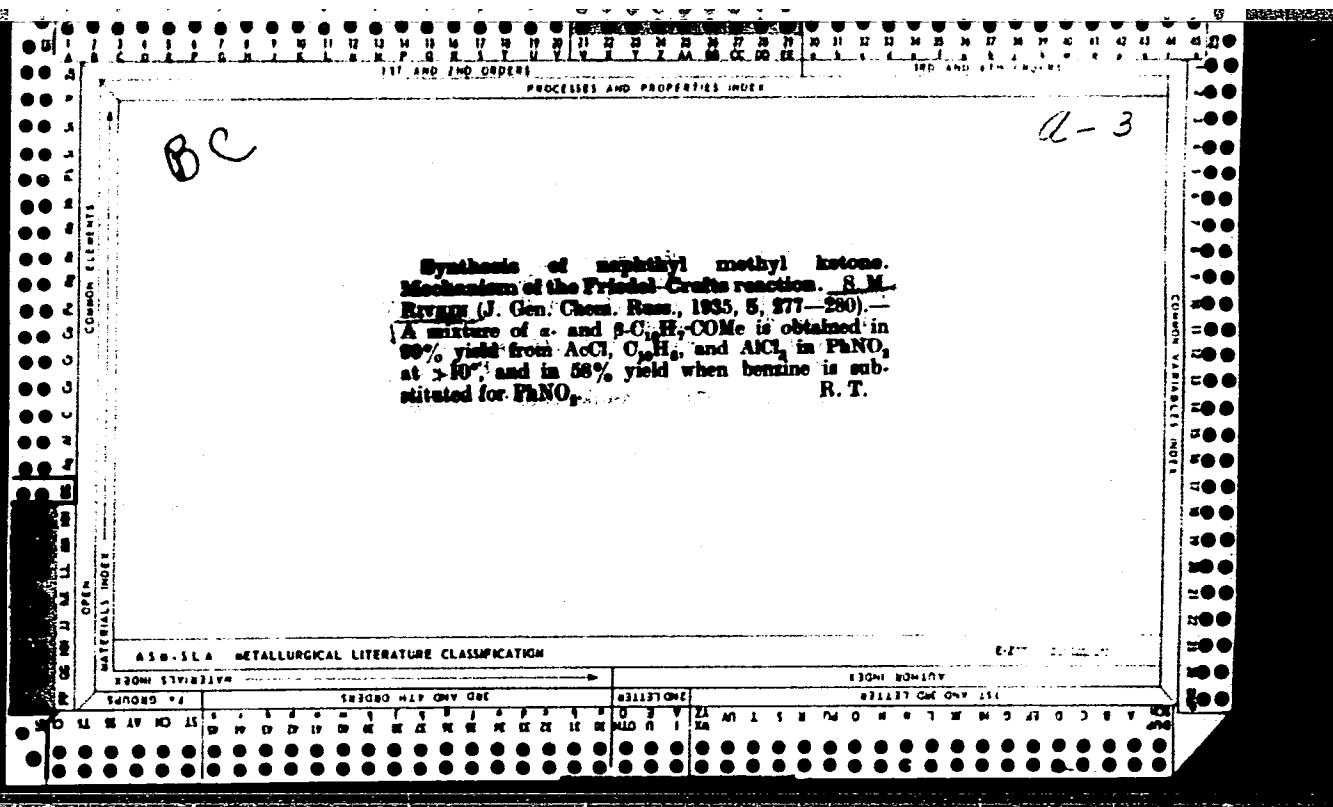
AVAILABLE: Library of Congress

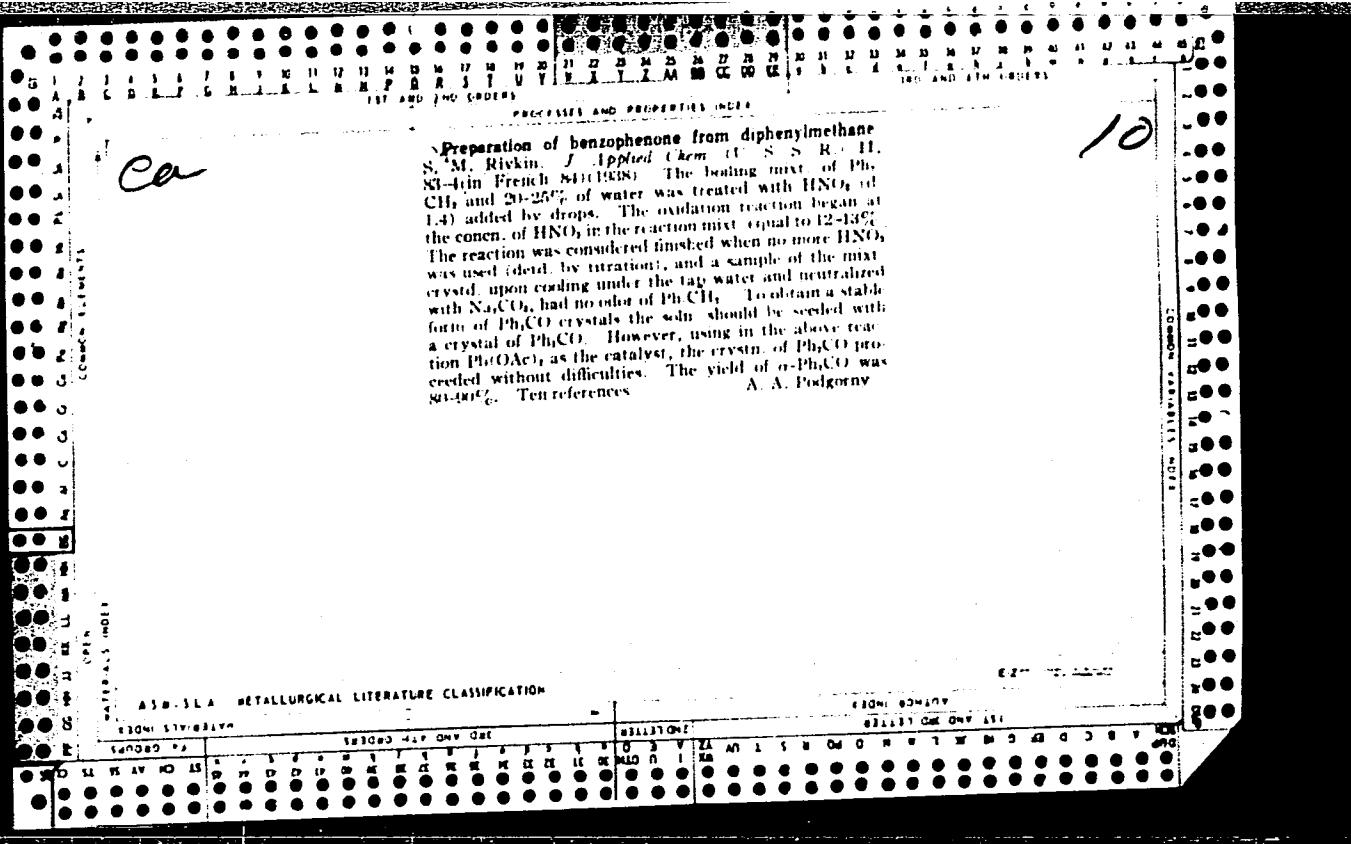
Card 2/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444"

1870-1891  
y. I. DRAIK, Zhuk, 1936, 2, 1870-1891

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014449

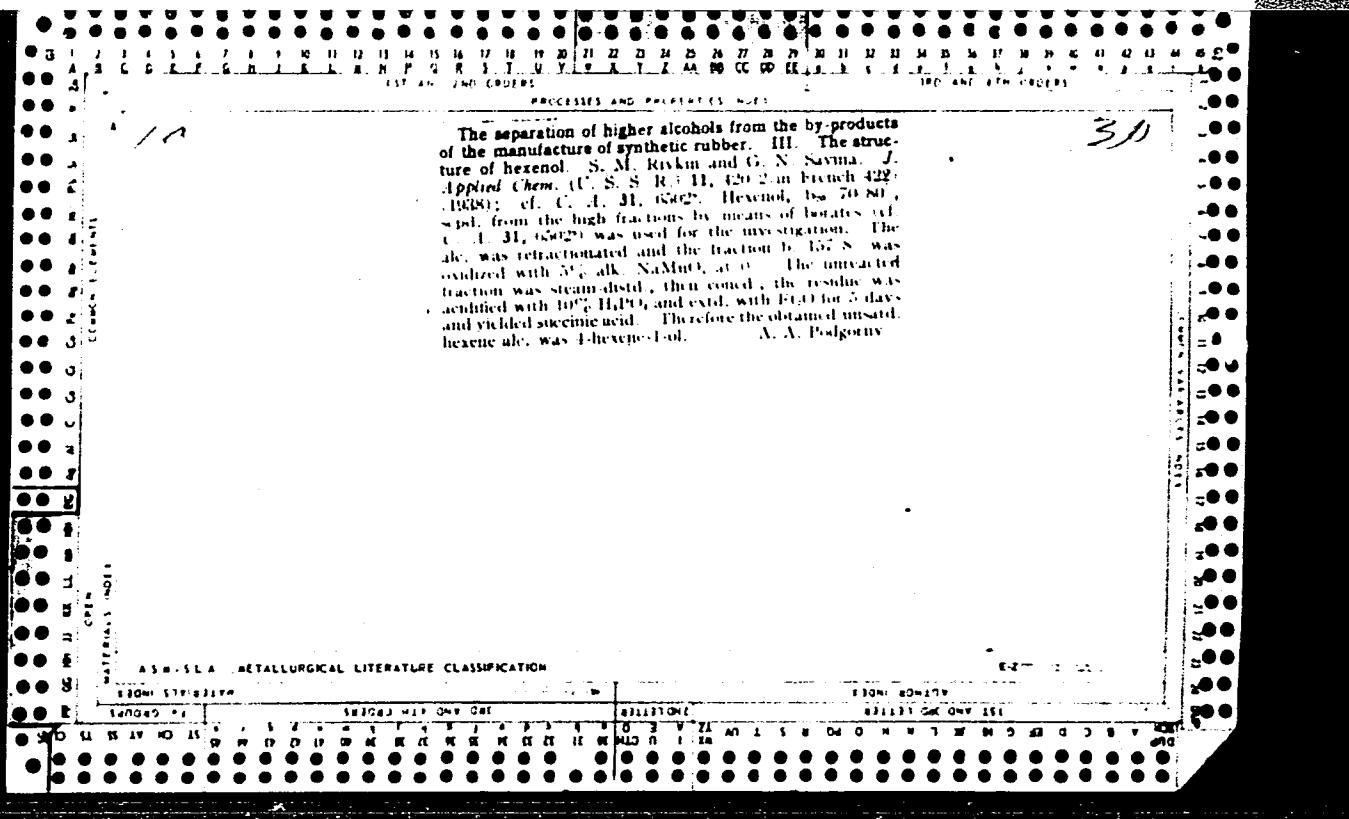




PROCESSES AND PROPERTIES INDEX

**Butyraldehyde from butyl alcohol.** N. M. Ryvkin, M. S. Nikitina, M. K. Paul' and R. B. Kulibayeva. *Soviet Kondensat. U. S. S. R.* 1958, No. 7, 8, 20, 30. Butyl alcohol was catalytically dehydrogenated by passing it at the speed of 1 cc./1 min. at 450° over ZnO. The yield of PtCHO was 50% of the BuOH. PtCO<sub>2</sub>Bu (10%) was formed. Addn of 5% MgO to the ZnO did not affect yields. Nineteen references. - Pestoff.

ASIN SLA: METALLURGICAL LITERATURE CLASSIFICATION

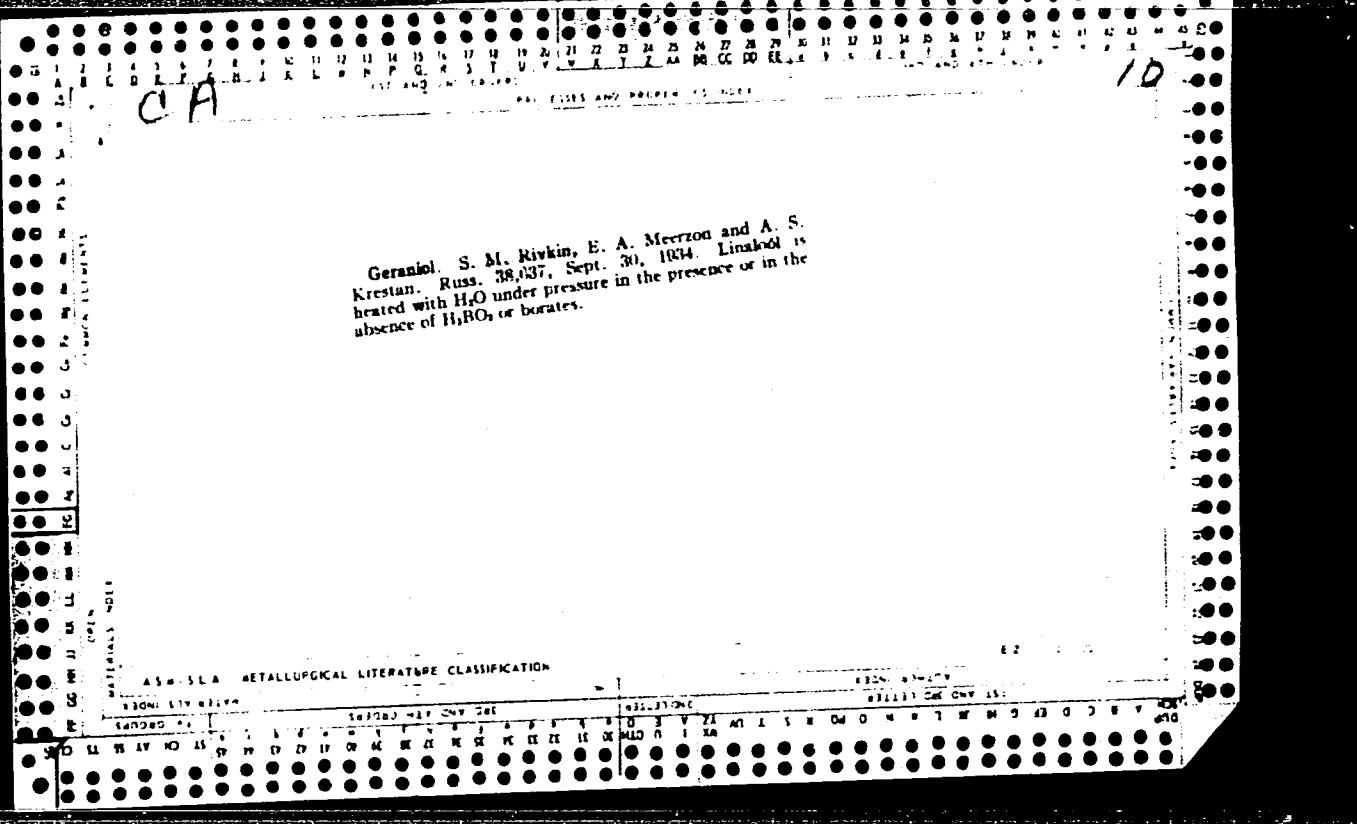


**Benzophenone.** S. M. Ryvkin. Russ. 38,634, Sept. 30, 1934.  $\text{Ph}_2\text{CH}_2$  is oxidized in dil.  $\text{HNO}_3$  in the presence of  $\text{Pb}(\text{OAc})_2$  as catalyst.

## ABSTRACTS OF METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0014449

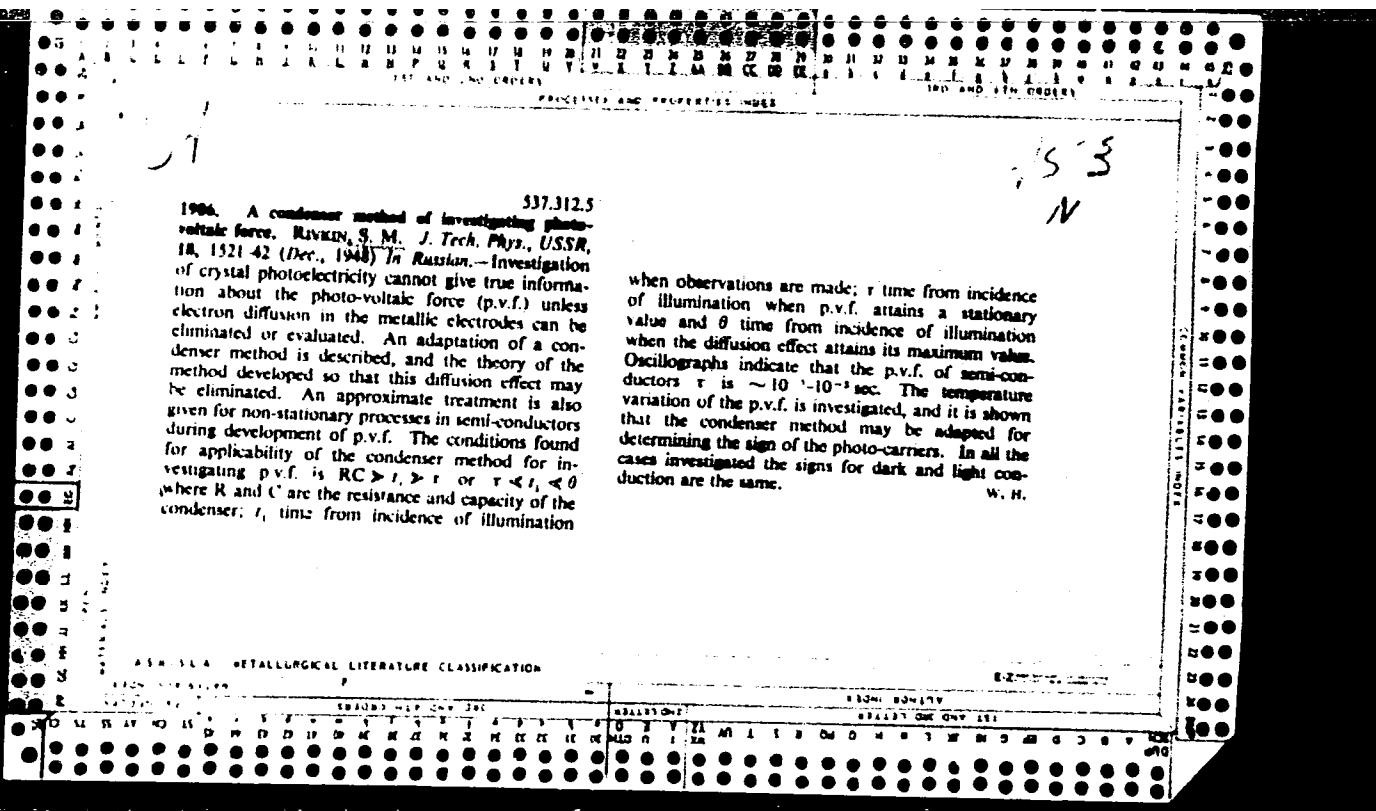
Geraniol. S. M. Rikvin, E. A. Meerzon and A. S. Krestan. Russ. 38, 637, Sept. 30, 1934. Linahol<sup>15</sup> is heated with H<sub>2</sub>O under pressure in the presence or in the absence of H<sub>3</sub>BO<sub>3</sub> or borates.



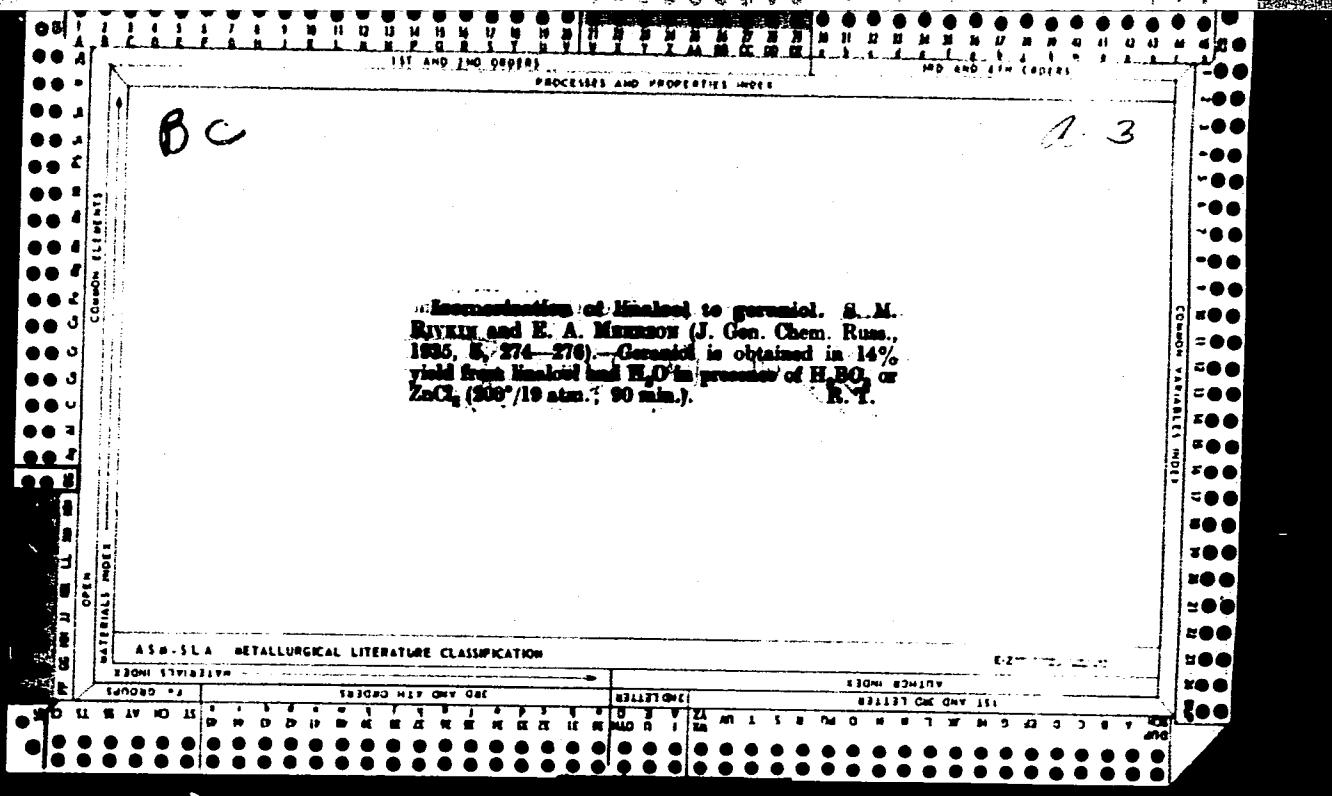
**196.** A condenser method of investigating photo-voltaic force. RAVICH, S. M. *J. Tech. Phys., USSR*, 18, 1521-42 (Dec., 1948) *In Russian.*—Investigation of crystal photoelectricity cannot give true information about the photo-voltaic force (p.v.f.) unless electron diffusion in the metallic electrodes can be eliminated or evaluated. An adaptation of a condenser method is described, and the theory of the method developed so that this diffusion effect may be eliminated. An approximate treatment is also given for non-stationary processes in semi-conductors during development of p.v.f. The conditions found for applicability of the condenser method for investigating p.v.f. is  $RC > t_1 > r$  or  $r < t_1 < 0$  where  $R$  and  $C$  are the resistance and capacity of the condenser;  $t_1$  time from incidence of illumination

when observations are made;  $\tau$  time from incidence of illumination when p.v.f. attains a stationary value and  $\theta$  time from incidence of illumination when the diffusion effect attains its maximum value. Oscillographs indicate that the p.v.f. of semi-conductors  $\tau$  is  $\sim 10^{-1}\text{--}10^{-2}$  sec. The temperature variation of the p.v.f. is investigated, and it is shown that the condenser method may be adapted for determining the sign of the photo-carriers. In all the cases investigated the signs for dark and light conduction are the same.

W<sub>1</sub>, W<sub>2</sub>



RIVKIN, S. M.,  
V. S. BATALIN, ZhPKh 9, 1820-31 (1936)



PROCESSES AND PROPERTIES INDEX

CIA-RDP86-00513R001444

B C

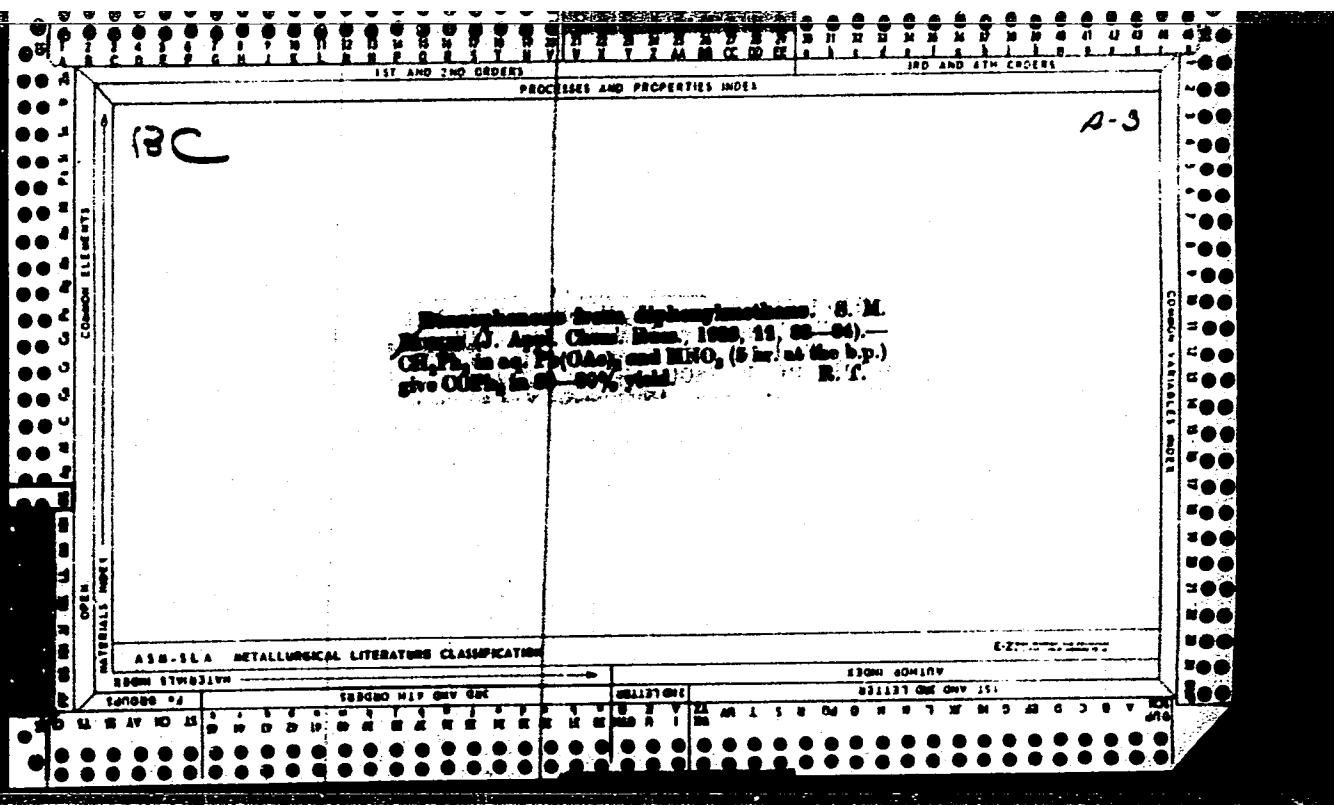
a-3

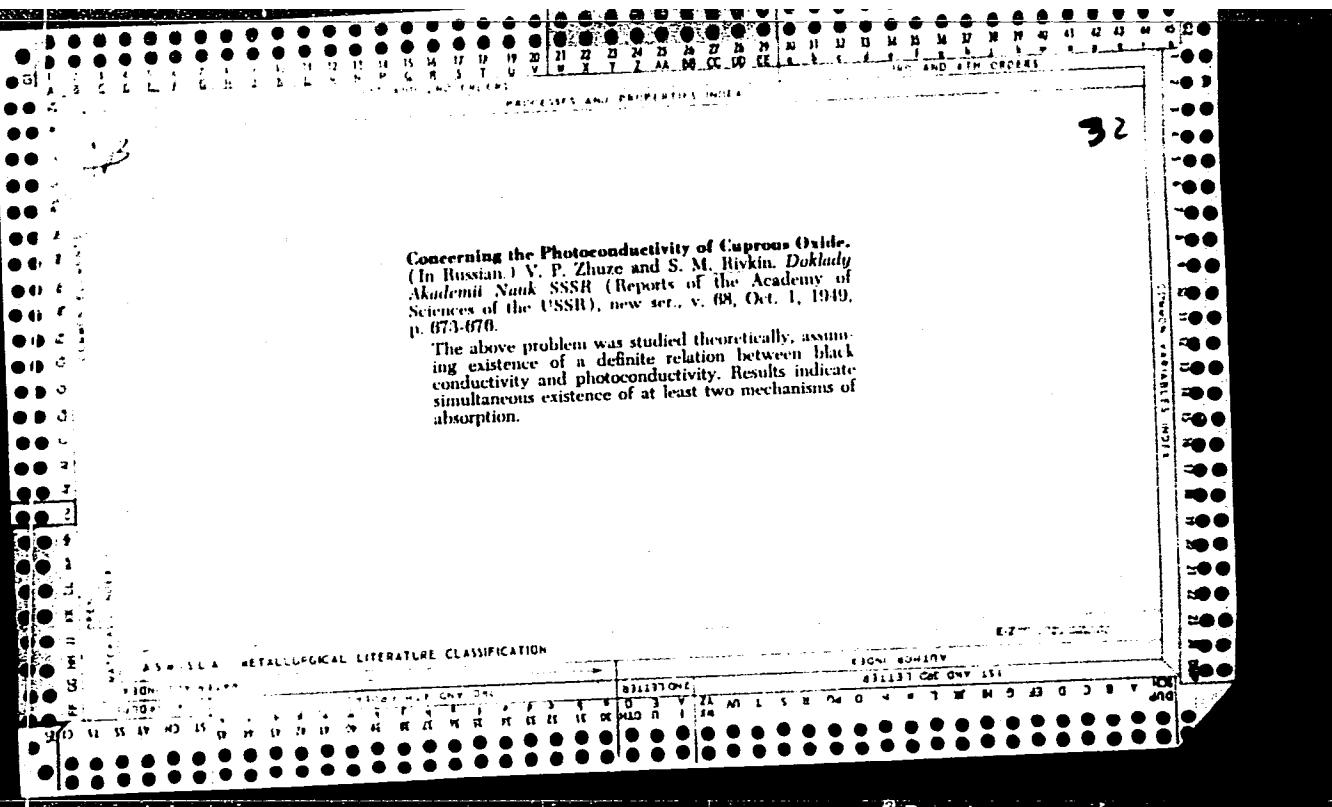
Synthesis of *o*-naphthyl methyl ketone. Mechanism of the Friedel-Crafts reaction. S. M. Rivkin (J. Gen. Chem. Russ., 1935, 5, 277-280). A mixture of *o*- and *p*-C<sub>6</sub>H<sub>4</sub>-COMe is obtained in 60% yield from AcCl, C<sub>6</sub>H<sub>6</sub>, and AlCl<sub>3</sub> in PhNO<sub>2</sub> at > 10°, and in 56% yield when benzene is substituted for PhNO<sub>2</sub>. R. T.

**ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION**

卷之三

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R00144449





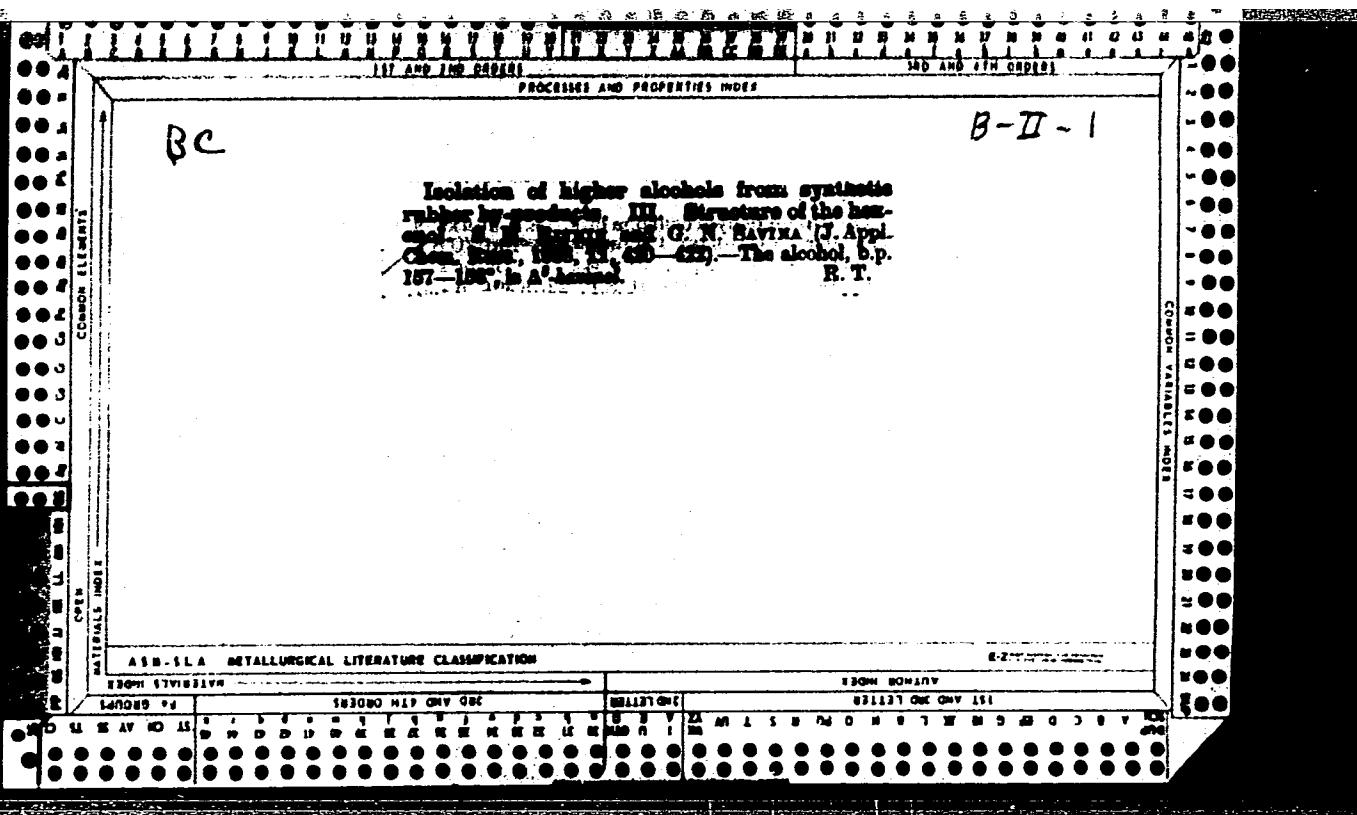
B

32

Complex Investigation of Photoconductivity of Cuprous Oxide. (In Russian.) S. M. Rukhin. Doklady Akademii Nauk SSSR (Reports of the Academy of Sciences of the USSR), new ser., v. 68, Sept. 21, 1949, p. 487-490.

Temperature dependence of quantum yield of cuprous oxide and factors involved were investigated. Method of investigation is described. Data are tabulated and charted.

AMERICAN METALCRAFT LITERATURE CLASSIFICATION



**Synthesis of methyl naphthyl ketone. Mechanism of the Friedel-Crafts reaction.** S. M. Bivkin, *J. Gen. Chem. (U. S. S. R.)* 5, 277 (1935). According to M. Chopin (*C. A.* 31, 2680) the relative velocity of the Friedel-Crafts reaction decreases in the following solvents at an increasing rate in the order given: PhH, benzene, ligroin, PhCl, PhBr, CS<sub>2</sub> and PhNO<sub>2</sub>. Of all these solvents only PhNO<sub>2</sub> is capable of dissolving AlCl<sub>3</sub> and the complex compounds. It is generally assumed that the ability of PhNO<sub>2</sub> to form mol. compds. with AlCl<sub>3</sub> tends to inhibit the catalytic action of AlCl<sub>3</sub>. Olivier (*C. A.* 31, 2880) obtained better results in the synthesis of PhC<sub>6</sub>H<sub>5</sub> from BrC<sub>6</sub>H<sub>5</sub> and PhH in PhNO<sub>2</sub> than in PhH. Expts. showed that mech. agitation, omitted by Chopin, is indispensable for the production of uniformly high yields of MeCOC<sub>6</sub>H<sub>5</sub> (I). Furthermore, the production of I resulted in a 43.5% yield within 6-10 hrs. by working in PhH, and in 9.0% yield within 2 hrs. and 20 min., by using PhNO<sub>2</sub>. The usual formation of coloring by-products in PhNO<sub>2</sub> solvent, which Chopin (*C. A.* 23, 4467) was unable to sep., was entirely avoided by carrying on the reaction below 10°. Any colored I on 2nd distill. becomes permanently white. It was shown (Pfau and Olfert, *C. A.* 21, 404) that in PhNO<sub>2</sub> there is chiefly formed  $\beta$ -I and in PhH an equal mixt. of the  $\alpha$ - and  $\beta$ -isomers. By adding some PhNO<sub>2</sub> to the PhH soln., the  $\beta$ -isomer was formed in the same amt. as it is obtained in PhNO<sub>2</sub> soln., whereas the PhH-insol. complex compd. of I and AlCl<sub>3</sub> contains an

equimol. quantity of  $\text{PbNO}_3$ . All condensations were carried out in a closed Cu beaker provided with a msh. stirrer. The usual procedure of adding  $\text{AlCl}_3$  to the soln. of  $\text{CuH}_2$  in  $\text{PhH}$  or  $\text{PhNO}_3$  and then dropping in  $\text{AcCl}$  was modified by dissolving  $\text{CuH}_2$  and  $\text{AcCl}$  in the solvent and adding  $\text{AlCl}_3$  to the mixt., whereby the formation of resinous matter was reduced from 83-100% to 10-16% in relation to the I formed. Optimum conditions are working with concd. solns at 10°. For the condensation in  $\text{PhH}$ , 130 g.  $\text{CuH}_2$  and 80 g.  $\text{AcCl}$  dissolved in 1000 g.  $\text{PhH}$ , to 300 g. of this soln. in a beaker, 150 g.  $\text{AlCl}_3$  is added, after a few min. of stirring the remaining part of the soln. is introduced dropwise at 10-13° within 6 hrs., the complex compd. is sept., decompr. with ice  $\text{H}_2\text{O}$  and distil. *in vacuo*, giving 69.5 g. I, i.e. 56.6%. The substitution of  $\text{AcCl}$  for  $\text{AcCl}$  resulted in 35% I and considerable difficulties by the solidification of the complex compd. into a hard mass, probably cemented by the Al acetate formed, rendering the stirring impossible. A similar procedure with 130 g.  $\text{CuH}_2$  and 83 g.  $\text{AcCl}$  in 500 g.  $\text{PhNO}_3$  and 150 g.  $\text{AlCl}_3$  at 8-10° within 9 hrs. and 20 min. resulted in 154 g. I, m. p. 51°, after filtration from the traces of the a isomer. A substitution of  $\text{AcCl}$  for  $\text{AcCl}$  produced poor results with 22.9% I. The work is being continued.

Chas Blank

**APPROVED FOR RELEASE: Tuesday, August 01, 2000** CIA-RDP86-00513R0014449

## PROCESSES AND PROPERTIES INDEX

*Isomerization of limanol to geraniol.* S. M. Kiykin and R. A. Mervin. *J. Gen. Chem. (U. S. S. R.)* 5, 274-6 (1935). - By the usual procedure of heating limanol (I) with inorg. and org. acids and their anhydrides only a small part of I is isomerized into geraniol. Thus, I heated with 100% AcOH and anhyd. NaOAc gives 10% geraniol (Ger. pat. 165,884, 165,885 and 165,890). On the other hand, geranyl phthalate on distn. and geraniol on autoclaving with H<sub>2</sub>O at 200° are partly isomerized to I. In all cases, the character of the reaction is obscured by the secondary reaction of dehydration. It seems that the accumulated product of isomerization inhibits the progress of the reaction, i. e., the isomerization of I to geraniol is a reversible reaction. Though no reversed isomerization of geraniol to I in an acid medium was observed, it may also be obscured by the processes of mol. decompn. of the alc. The expts. with the isomerization of I with H<sub>2</sub>O at high pressure confirm this assumption. The method can be successfully used for the production of geraniol from I. The best results were obtained with equimol. mixts. of I and H<sub>2</sub>O at 200-10°, giving no dehydration and only little resinsification. With a lower ratio of H<sub>2</sub>O the decompn. of I increases, though the yield of geraniol is unchanged, while a greater ratio of H<sub>2</sub>O does not affect the results. By increasing the time of heating from 1 hr. to 6 hrs. the yield of geraniol was increased from 1.7 to 9.2% and that of the residuous matter from 0.5 to only 1.5%. Thus, practically all unreacted I was recovered. It was found

that acids affect the reaction at high pressure in the same manner as at the atm. pressure. By activating the I mol. they stimulate more greatly the mol. decompn. than its isomerization. Even such weak acids as B(OH)<sub>3</sub> and Cd<sub>2</sub> cause dehydration. A study of the effect of the addn. of MnSO<sub>4</sub>, KHSO<sub>4</sub>, Pb(NO<sub>3</sub>)<sub>2</sub> and ZnCl<sub>2</sub> showed that Pb(NO<sub>3</sub>)<sub>2</sub> acts as an anticalyst, while ZnCl<sub>2</sub> catalyzes the reaction from 3.5 to 17% yield of geraniol with a corresponding increase in the decompn. products. The reaction mixt. was dried with anhyd. Na<sub>2</sub>SO<sub>4</sub> and distd. into 3-5 fractions at 7-8 mm. pressure. The presence of the primary alc. was detd. in each fraction by esterification with C<sub>6</sub>H<sub>5</sub>(CO<sub>2</sub>H)<sub>2</sub>. Geraniol was sepd. from any neral with CaCl<sub>2</sub>. Mixts. of 250 g. of d-I, b, 78-80°, nD<sup>20</sup> 1.4643, with 32 cc. H<sub>2</sub>O autoclaved at 200-10° and 18-10 atm. pressure for 3.5 hrs. gave 13.3 g. geraniol, and for 6 hrs. 20.1 g. geraniol.

Chas. Blane

## ADM 51A - METALLURGICAL LITERATURE CLASSIFICATION

ACC NR: AP6034945

(N)

SOURCE CODE: UR/0146/66/009/005/0098/0104

AUTHOR: Rivkin, S. S.

ORG: none

TITLE: A general formula for the Cardan error of a directional gyroscope mounted on a tilting base

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 5, 1966, 98-104

TOPIC TAGS: gyro, gyroscope, error minimization, mean square error, aircraft flight instrument

ABSTRACT: The error of a directional gyroscope mounted in an airplane has been investigated. By determining the yaw angle and the azimuthal angular deviation of the airplane, a general formula was derived for the Cardan error in dependence on the angle  $k$  between the axes of the gyroscope and its support and the yaw angles of the airplane. Partial formulas for the Cardan error at  $k = 0^\circ$  and  $k = 90^\circ$  are given; at  $k = 90^\circ$  the Cardan error was found to be on the average  $3.3 \times 10^3$  times less than at  $k = 0^\circ$ . Using a deduced formula for obtaining the mean square root of the Cardan error, the optimum value of the angle  $k$  for the minimum error was found. As shown,  $k = 90^\circ$  represents the optimum value of  $k$ . Orig. art. has: 3 figures and 21 formulas.

SUB CODE: 17, 01/ SUBM DATE: 17Oct65/ ORIG REF: 003/  
Card 1/1 UDC: 62.752.4

L 52990-65 EBO-2/EWT(d)/FSS-2/EEC(k)-2/EWG(v)/EEC-4/EED-2/EWA(c) Pn-4/Po-4/Pe-5/  
ACCESSION NR AM5001149 Pg-4/Pg-4/PR-4/PI-4 BC  
BOOK EXPLOITATION

S/

60

B+1

Rivkin, S. S.

Theory of gyroscopic devices (Teoriya giroskopicheskikh ustroystv), pt. 2,  
Leningrad, Izd-vo "Sudostroyeniye", 1964, 547 p. illus., biblio. 5,000 copies  
printed.

TOPIC TAGS: gyroscope, gyroscope stabilizer, gyroscopic navigation system

PURPOSE AND COVERAGE: This book is the second part of a work on the theory of gyroscopic devices (the first part was published in 1962). It considers the theory of power gyroscopic stabilizers, differentiating and integrating gyroscopes, gyroscopic navigational systems, and certain problems of gyroscopic stabilization. Basic attention is given to determining the dynamic errors of gyroscopic devices to conditions of random control and excitation influence. The book is intended for engineers, technicians, and researchers concerned with problems of applied gyroscopy and can be used as a textbook by students and graduate students studying the theory of gyroscopic devices.

TABLE OF CONTENTS (abridged):

Card 1/2

L 52990-65

ACCESSION NR AM5001449

Foreword -- 3  
Ch. VII. Power gyrostabilizers and their use -- 4  
Ch. VIII. Differentiating gyroscopes -- 118  
Ch. IX. Integrating gyroscopes -- 199  
Ch. X. Some problems of gyroscopic stabilization -- 265  
Ch. XI. Gyroscopic navigational systems -- 309  
Bibliography -- 534

SUBMITTED: 21Apr64

SUB CODE: NG

NO REF Sov: 166

OTHER: 039

Card 2/2

UKHOV, K.S.; RIVKIN, S.S..

Aleksei Nikolaevich Krylov; on the occasion of the centenary of  
his birth. Izv.vys.ucheb.zav.; prib. 6 no.4:170-173 '63.  
(MIRA 16:8)  
(Krylov, Aleksei Nikolaevich, 1863-1945)

KUDREVICH, Boris Ivanovich , zasl. deyatel' nauki i tekhniki RSFSR,  
prof., doktor tekhn. nauk[deceased]; FORMAKOVSKIY, S.F.,  
doktor tekhn. nauk, otv. red.; RIVKIN, S.S., doktor tekhn.  
nauk, nauchnyy red.; OSTROUKHOV, Ya.G., doktor tekhn. nauk,  
nauchnyy red.; SHAPIRO, M.V., kand. tekhn.nauk, nauchnyy red.;  
KVOCHKINA, G.P., red.; SHISHKOVA, L.M., tekhn. red.

[Theory of gyroscopic instruments] Teoriia giroskopicheskikh  
priborov; izbrannye trudy. Leningrad, Sudpromgiz. Vol.1. 1963.  
(MIRA 16:5)  
327 p.

(Gyroscopic instruments)

RIVKIN, S.S.

Applying the theory of matrices to the analysis of the geometry  
of gyroscopic devices. Vop. prikl. fiz. no.2:5-15 '60.  
(MIRA 15:4)  
(Gyroscopic instruments) (Matrices)

PHASE I BOOK EXPLOITATION

SOV/6069

Rivkin, Samuil Simonovich

Teoriya giroskopicheskikh ustroystv; Chast' I (Theory of Gyroscopic Devices; Part I). Leningrad, Sudpromgiz, 1962. 506 p. 6200 copies printed.

Scientific Ed.: R. I. Chertkov, Candidate of Physics and Mathematics; Reviewers: Ya. G. Ostromukhov, Engineer, and E. I. Sliv, Candidate of Technical Sciences; Ed. of Publishing House: Ye. V. Klimina; Tech. Ed.: P. S. Frumkin.

PURPOSE: The book is intended for engineering, technical, and scientific personnel dealing with applied gyroscopy. It can also be used as a textbook by students studying the theory of gyroscopes.

COVERAGE: The book deals with fundamentals of applied theory of gyroscopes and gyroscopic devices based on use of astatic gyroscopes with three degrees of freedom, either without correction or with a pendulum correcting system. Methods

Card 1/1 C

Ch. II. Controlling and Disturbing Effects on Gyroscopes	61
Ch. III. Free Gyroscope	138

Card 2/1 C

S/124/62/000/001/002/046  
D237/D304

AUTHOR: Rivkin, S. S.

TITLE: Investigation of naval gyroscopic instruments  
during irregular rolling of a ship

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1962,  
15, abstract 1A97 (V sb. 1-ya Mezhruz. nauchno-  
tekh. konferentsiya po probl. sovrem. giro-  
skopii. L., 1960, 93-113)

TEXT: Some methods of investigating naval gyroscopic instru-  
ments during irregular rolling of a ship are given. It is shown  
that in this case the theory of probability must be employed, in  
particular the theory of random processes and methods of statisti-  
cal dynamics. Two gyroscopic systems are investigated as exam-  
ples: correcting pendulum and gyrohorizon. It is noted that,  
during irregular rolling, casual deviations of the axis of a

Card 1/2

S/124/62/000/001/002/046

D237/D504

Investigation of naval...

gyrohorizon are much smaller than those of the correcting pendulum. 7 references. [Abstracter's note: Complete translation.] ✓

Card 2/2

PAVLOV, Vsevolod Aleksandrovich; RIVKIN, S.S., doktor tekhn. nauk,  
retsenzent; BUTENIN, N.V., doktor tekhn. nauk, retsenzent;  
PONYRKO, S.A., nauchnyy red.; AZAROVA, I.G., red.; TSAL, R.K.,  
tekhn. red.

[The gyroscopic effect, its manifestations and applications]  
Giroskopicheskii effekt, ego proizvleniya i ispol'zovanie.  
Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1961.  
163 p. (MIRA 15:2)

(Gyroscope)

52

13.2520

S/044/61/000/007/040/055  
C111/C222

AUTHOR: Rivkin, S.S.

TITLE: On the estimation of the errors of gyroscopic devices for  
the influence of random disturbances

PERIODICAL: Referativnyy zhurnal Matematika, no. 7, 1961, 27,  
abstract 7 V 177. ("Vopr. prikl. giroskopii" vyp I, L.,  
Sudpromgiz, 1958, 5 - 19)

TEXT: The considered problem leads to the investigation of the solution  
of a linear differential equation the right side of which is a stationary  
random process. The spectrum of this process is obtained by the ex-  
periment. The author points to the essential difference between the qualita-  
tive final conclusions obtained by him and those final conclusions which  
result from the consideration of the non-statical models treated in former  
times.

[Abstracter's note : Complete translation.]

Card 1/1

✓B)

PAVLOV, V.A., kandidat tekhnicheskikh nauk, detsent; TUNIMANOV, A.Z., inzhener; ANTONOV, A.K., inzhener; GUSHCHINA, L.M., inzhener; RIVKIN, S.S., doktor tekhnicheskikh nauk; SAYDOV, P.I., kandidat tekhnicheskikh nauk dotsent; PEL'POR, D.S., doktor tekhnicheskikh nauk, professor; RYABOV, B.L., doktor tekhnicheskikh nauk, professor; TIKHMANEV, S.S., doktor tekhnicheskikh nauk, professor; FRIDLENDER, G.O., doktor tekhnicheskikh nauk, professor; CHISTYAKOV, N.I., doktor tekhnicheskikh nauk, professor.

Can V.A. Pavlov's book "Aircraft gyroscope instruments" be recommended for use as a textbook? Priborostroenie no.1:29-31 Ja '57.

(MLR 10:4)

1. Chlen pravleniya Leningradskogo otdeleniya nauchnogo inzhenerno-teknicheskogo obshchestva priborostroitel'noy promyshlennosti (for Tunimanov).
2. Chlen pravleniya Vsesoyuznogo nauchnogo inzhenerno-teknicheskogo obshchestva priborostroitel'noy promyshlennosti (for Gushchina).
3. Moskovskoye Vyssheye tekhnicheskoye uchilishche imeni Baumana (for Pel'por, Tikhmanev).
4. Moskovskiy aviationsionnyy institut imeni Serge Ordzhonikidze (for Ryabov).
5. Voyenno-vozdushnaya inzhernaya akademiya imeni N.Ye. Zhukovskogo (for Chistyakov)

(Gyroscope)

RIVKIN, Solomon Lazarevich; MELEYEV, A.S., red.

[Thermodynamic properties of gases] Termodinamicheskie  
svoistva gazov. Izd.2., perer. i dop. Moskva, Izd-vo  
"Energiia," 1964. 294 p. (MIRA 17:6)

SMAZHEVSKAYA, Ye.G.; RIVKIN, V.I.

Effect of small concentrations of various elements on the properties of the solid solution  $(\text{Pb}_{0.57}, \text{Ba}_{0.43}) \text{Nb}_2\text{O}_6$ . Izv. AN SSSR Ser. fiz. 24 no.11:1398-1400 N '60. (MIRA 13:12)

(Barium niobate—Electric properties)  
(Lead niobate—Electric properties)

ACC NR: AP6021769

SEARCH CODE: UR/0413/66/000/012/0052/0052

INVENTORS: Smazhevskaya, Ye. G.; Rivkin, V. I.; Podol'ner, N. A.

ORG: none

TITLE: A ceramic material. Class 21, no. 182779

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 52

TOPIC TAGS: ceramic material, ceramic technology, ceramic product property, piezoelectric ceramic, piezoelectric effect, piezoelectric property, potassium compound

ABSTRACT: This Author Certificate presents a ceramic material for producing piezoelectric elements and containing PbO, Bi<sub>2</sub>O<sub>3</sub>, and TiO<sub>2</sub>. To increase the interval of working temperatures for the piezoelectric elements, aside from the above components, K<sub>2</sub>O is introduced into this material. K<sub>2</sub>O is added in the following molar proportion to the other ingredients:

PbO : Bi<sub>2</sub>O<sub>3</sub> : K<sub>2</sub>O : TiO<sub>2</sub> = (1 - X) :  $\frac{X}{4}$  :  $\frac{X}{4}$  : 1 at X = 0.3 -- 0.6.

SUB CODE: 11,20 / SUBM DATE: 18Jun64

Card 1/1

UDC: 621.315.61:537.226.33

85889

9.2180 (3203, 1162)  
24.7300 (1043, 1160)

S/048/60/024/011/025/036  
B006/B060

AUTHORS: Smazhevskaya, Ye. G. and Rivkin, V. I.

TITLE: The Effect of Small Concentrations of Different Elements on  
the Properties of a Solid  $(Pb_{1-0.57} Ba_{0.43})Nb_2O_6$  Solution

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,  
Vol. 24, No. 11, pp. 1398-1400

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The authors studied 11 series of niobium pentoxide specimens which contained the following impurities:  $Ti^{4+}$  from 0.06 - 0.6%;  $Si^{4+}$  from 0.06 - 0.12%;  $Fe^{3+}$  from 0.08 - 0.4%;  $F^-$  from 0.1 - 0.25%;  $Ta^{5+}$  from 0.15 - 0.9%, and  $Na^+$  from 0.03 - 0.3%, and  $K^+$  from 0.13 - 1.8% (all data in percent by weight). The dielectric constant ranged between 700 and 2000, the piezoelectric modulus  $d_{31}$  between 0.5 and  $3.0 \cdot 10^{-6}$  CGSE. The effects of all these elements upon the

Card 1/4

85889

The Effect of Small Concentrations of  
Different Elements on the Properties of a  
Solid  $(Pb_{0.57}, Ba_{0.43})Nb_2O_6$  Solution

S/048/024/011/025/036  
B006/B060

piezoelectric properties of the solid  $(Pb, Ba)Nb_2O_6$  solution were investigated. The solution examined had a Curie point near  $250^{\circ}\text{C}$ . The piezoelectric properties were found to depend not only on type and concentration of the impurity, but also on the end temperature of the heat treatment. The investigation results are compiled in a Table, where the mean values from measurements on three specimens are indicated for each case. The effects of the concentrations of the various impurities on  $d_{31}$  and  $\epsilon$  are graphically illustrated in Figs. 1 and 2. There are 2 figures and 1 table.

Legend to the Table: 1) No. of the specimen; 2) element introduced,  
3) control compound, 4) impurity concentration (% by weight); 5)  $\epsilon$  at  
800 cps and  $20 \pm 5^{\circ}\text{C}$ ; 6)  $\tan \delta$ , 7)  $d_{31} \cdot 10^6$  CGSE at  $20 \pm 5^{\circ}\text{C}$ , 8) temperature of  
the heat treatment,  $^{\circ}\text{C}$ .

Card 2/4

85889

S/048/60/024/011/025/036  
B006/3060

№ состава	Вводимый элемент <i>z</i>	Концентрация при- меси, (вес. %)	$\epsilon$ при 800 Hz и $20 \pm 5^\circ$ (%)	$tg \delta$ при 800 Hz и $20 \pm 5^\circ$	$d_{11} \cdot 10^4$ , ед. CGSE при $20 \pm 5^\circ$ C	$k_r$	Темпера- тура об- огрева, °C
1	Контрольный состав		1170	0,60	1,9	0,28	
2	Ti <sup>4+</sup> (в TiO <sub>2</sub> )	0,05	1140	0,50	1,74	0,24	
3		0,1	1140	0,45	1,74	0,25	
4		0,5	1350	0,40	1,87	0,26	
5		1,0	1450	0,38	1,40	0,20	
6	Ta <sup>5+</sup> (в Ta <sub>2</sub> O <sub>5</sub> )	0,05	1100	0,42	1,71	0,25	
7		0,1	1070	0,46	0,61	0,25	
8		0,5	970	0,61	1,47	0,23	
9		1,0	1000	0,46	1,51	0,24	1320
10	Na <sup>+</sup> (в Na <sub>2</sub> CO <sub>3</sub> )	0,01	1240	0,60	2,20	0,32	
11		0,05	1250	0,63	2,29	0,32	
12		0,1	1230	0,73	2,10	0,30	
13		0,5	1250	1,07	1,60	0,24	
14	K <sup>+</sup> (в K <sub>2</sub> CO <sub>3</sub> )	0,05	1250	0,73	2,16	0,30	
15		0,1	1350	0,95	2,35	0,32	
16		0,5	1280	1,19	1,86	0,27	
17		1,0	750	1,40	1,20	0,21	

Card 3/4

85889

S/048/60/024/011/025/036  
B006/B060

18	Контрольный состав		1040	0,70	1,38	0,25	
19	Fe <sup>3+</sup> (в Fe <sub>2</sub> O <sub>3</sub> )	0,05	1000	0,45	1,33	0,24	
20		0,1	1100	0,45	1,51	0,26	
21		0,3	1180	0,50	1,72	0,28	
22		0,5	1280	0,50	1,46	0,23	
23	Si <sup>4+</sup> (в SiO <sub>2</sub> )	0,01	930	0,50	1,27	0,23	
24		0,05	790	0,60	1,11	0,21	1300
25		0,1	880	0,60	1,26	0,24	
26		0,2	730	0,70	1,13	0,22	
27	F <sup>-</sup> (в BaF <sub>2</sub> )	0,05	1100	0,70	1,40	0,24	
28		0,1	1100	0,50	1,43	0,25	
29		0,5	1070	0,52	1,42	0,24	

Card 4/4

88

RIVKIN, V. L.

Cand Med Sci - (diss) "Epithelial ducts of the coccygeal area. (Origin, clinical aspect of suppurative complications, and their treatment)." Moscow, 1961. 12 pp; (Academy of Medical Sciences USSR); 250 copies; price not given; (KL, 7-61 sup, 261)

RIVKIN, V.L.; BERZNIITSKIY, S.A.

Treatment of anal neuralgia (prostalgia). Mkt. vop. prokt. no.2  
67-71 '63 (MIRA 18:1)

RYZHIKH, A.N., prof.; RIVKIN, V.L.

Local treatment of limited precancerous diseases and the initial forms of cancer of the rectum by resection of electro-coagulation. Ikt. vop. prokt. no. 281.9.189 '63 (MIRA 1831)

RIVKIN, V.L., kand. med. nauk; GESIELEVICH, Ye.S., kand. med. nauk

Clinical X-ray characteristics of diffuse polyposis of the large intestine. Vest. khir. no.10:29-34 '64. (MIRA 19:1)

1. Iz proktologicheskogo otdeleniya (zav. - prof. A.N. Ryzhikh)  
Onkologicheskogo instituta imeni Gertseva (dir. - prof. A.N. Novikov).

RIVKIN, V.L. (Moskva, D-423, Verkhniye Mnevniki, Kartal '5, korpus 18, kv.23);  
SLAVIN, Yu.M.

Clinical and morphological parallels in diffuse polyposis of the  
rectum and the large intestine. Vop. onk. 10 no.10:23-30 '64.  
(MIRA 18:8)

1. Iz proktologicheskogo otdeleniya Gosudarstvennogo onkologicheskogo  
instituta imeni P.A.Gertsena (av. - prof. A.N.Ryzhikh).

BOBROVA, A.G.; RIVKIN, V.L.; FAYN, S.N.

Surgery for cancer of the anus, the rectum and the large intestine; survey of foreign literature for 1958-1961. Ak.  
vop. prokt. no.2:237-248 '63 (M.RA 18:1)

SLAVIN, Yu.M.; RIVKIN, V.L.

Polyps and polyposis of the rectum and the large intestine;  
survey of foreign literature for 1958-1961. /kt. vop. prokt.  
no.2:248-256 '63 (MIRA 18:1)

RIVKIN, V.L.

Some new data on the pathogenesis and surgical treatment of  
epithelial saccogeal passages. Akt. vop. prokt. no. 2871-77  
'63 (MIRA 18:1)

RIVKIN, V.L.

Embryogenesis of the epithelial course of the coccygeal region  
and surgical treatment of its suppurative complications. Vest.  
khir. no.5:87-93 '61. (MIRA 15:1)

1. Iz proktologicheskogo otdeleniya (nauchn. rukovoditel' - prof.  
A.N. Ryzhikh) Moskovskoy klinicheskoy bol'nitsy No.18 i Tsentral'-  
noy nauchno-issledovatel'skoy laboratorii (zav. - kand.med.nauk  
E.M. Kogan) 2-go Moskovskogo meditsinskogo instituta im. N.I.  
Pirogova.  
(SACROCOCCYGEAL REGION--ABNORMITIES AND DEFORMITIES)

RYZHIKH, A.N., prof.; RIVKIN, V.L., vrach

Acute paraproctitis. Zdorov'e 7 no.8:22-23 Ag '61. (MIRA 14:9)  
(RECTUM—INFLAMMATION)

USSR / Human and Animal Morphology (Normal and Patho- S-5  
logical). Blood-Vascular System. Vessels.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79159.

Author : Rivkin, V. N.

Inst : NOT given.

Title : Reactivity of the Capillaries and Leukocytic  
Reaction During the Action of an Inflaming  
Agent.

Orig Pub: Sb. nauch. rabot. stud. Smolenskiy med. in-t,  
1957, vyp 6, 58-64.

Abstract: Change of the permeability of capillaries was  
studied according to the intensity of blue in  
the inflamed part of the skin of a rabbit, in-  
to which a 1% solution of trypan blue from a  
calculation of 1ml/kg had first been internally  
introduced. The inflammation was caused by the  
application of 0.01 ml of xylene on skin which

Card 1/2

RIVKIN, YA. Z.

PA 54/49T41

User/Engineering

Boilers

Electric Power Plants

Nov 48

"Possibility of Assembling the Boilers TP-230 and  
PK-10 in Blocks," Ya. Z. Rivkin, Eng., 3 pp

"Elec Stants" No 11

Recommends certain structural changes in TP-230 and  
PK-10 boilers which would make them more adaptable to  
block assembly (water economizer, superheaters, etc.).  
Even though Eng Dept Min of Elec Power Plants, recom-  
mended full use of block assembly to Taganrog "Krasnyy  
Kotelnik" (TP-230) and Podols'k (PK-10) factories,  
the suggestion was not heeded. Power factory is  
starting production of a high-pressure (100 atm)  
boiler, and Tech Council should check the plans for  
block assembly very carefully.

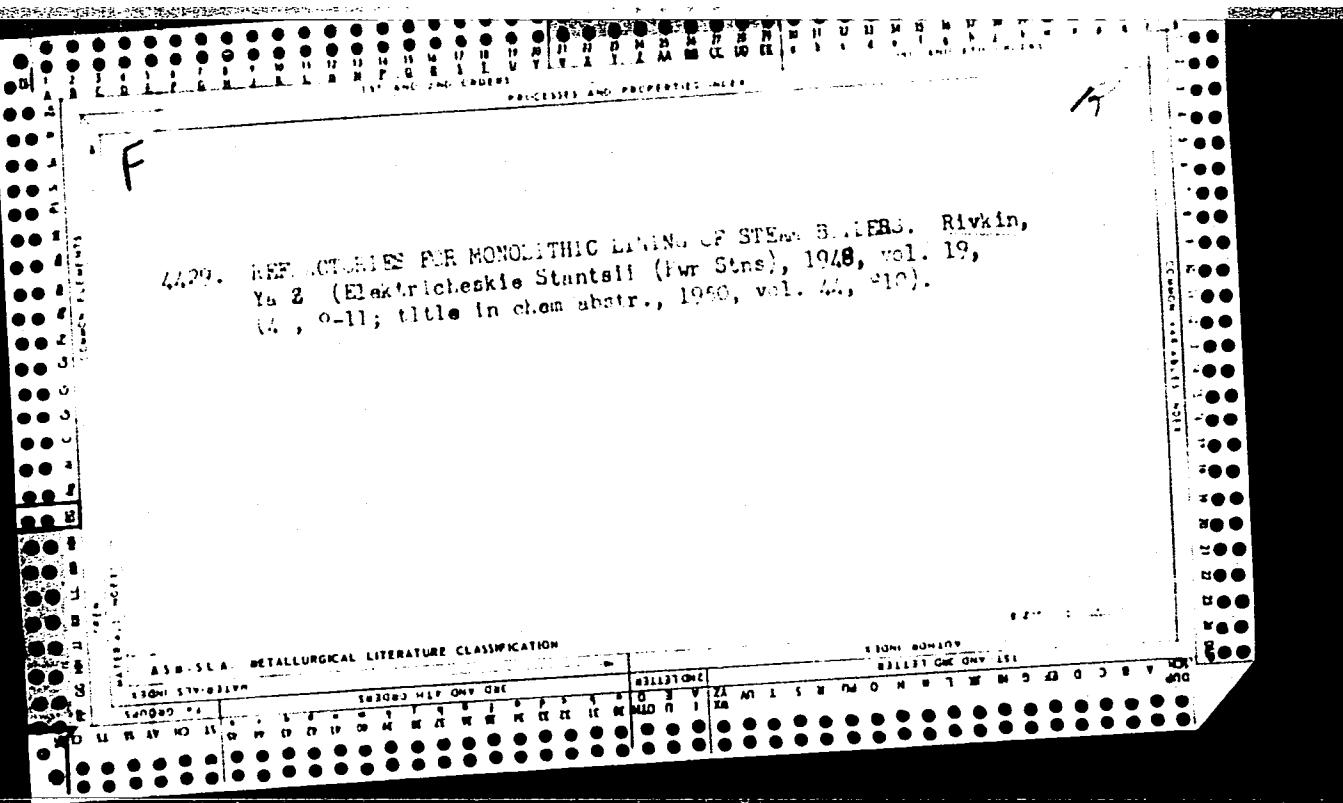
FDD

54/49T41

KRAMSKOV, E.I., POKROVSKOV, N.A., RIVKIN, Ye.I.

Single-coordinate hydraulic servodrive with a jet amplifier.  
Stan. i instr. 35 no.11x25.26 N '64. (MIRA 18;3)

4429. REFLECTIONS FOR MONOLITHIC LIVING-OF STEMS BUILDERS. Rivkin,  
Ya Z (Elektricheskie Stantsii (Fwr Stns), 1948, vol. 19,  
N. 9-11; title in chem abstr., 1950, vol. 44, #10).



CA

Refractories for monolithic lining of steam boilers  
V.A. Z. Ryvkin. Elek. Stavka 19, No. 4, 9-11(1948).  
N. Thon

NIKOL'SKIY, N.V., inzh.; RIVKIN, Yu.M., inzh., nauchnyy red.; RUDERMAN, A.G., red.izd-va; OSENKO, L.M., tekhn. red.

[Assembly of boiler units] Montazh kotel'nykh ustavok. Moskva, Gos.izd-vo lit-ry po stroit.,arkhit.i stroit.materialam, 1961. 302 p.  
(MIRA 14.12)

1. Russia (1917- R.S.F.S.R.) Glavnaya upravleniya po montazhu tekhnologicheskogo oborudovaniya i proizvodstvu montazhnykh rabot.  
(Boilers) (Electric power plants--Design and construction)

KORNIYENKO, Viktor Stepanovich; MIVKIN, Yury Moiseyevich;  
ZHURAVLEV, B.A., red.

[Safety manual for assemblers of vertical tanks] Pamiatka  
po tekhnike bezopasnosti dlia montazhnikov vertikal'nykh  
rezervuarov. Moskva, Naukizdat, 1984. 34 p.  
(MIRA 18.8)

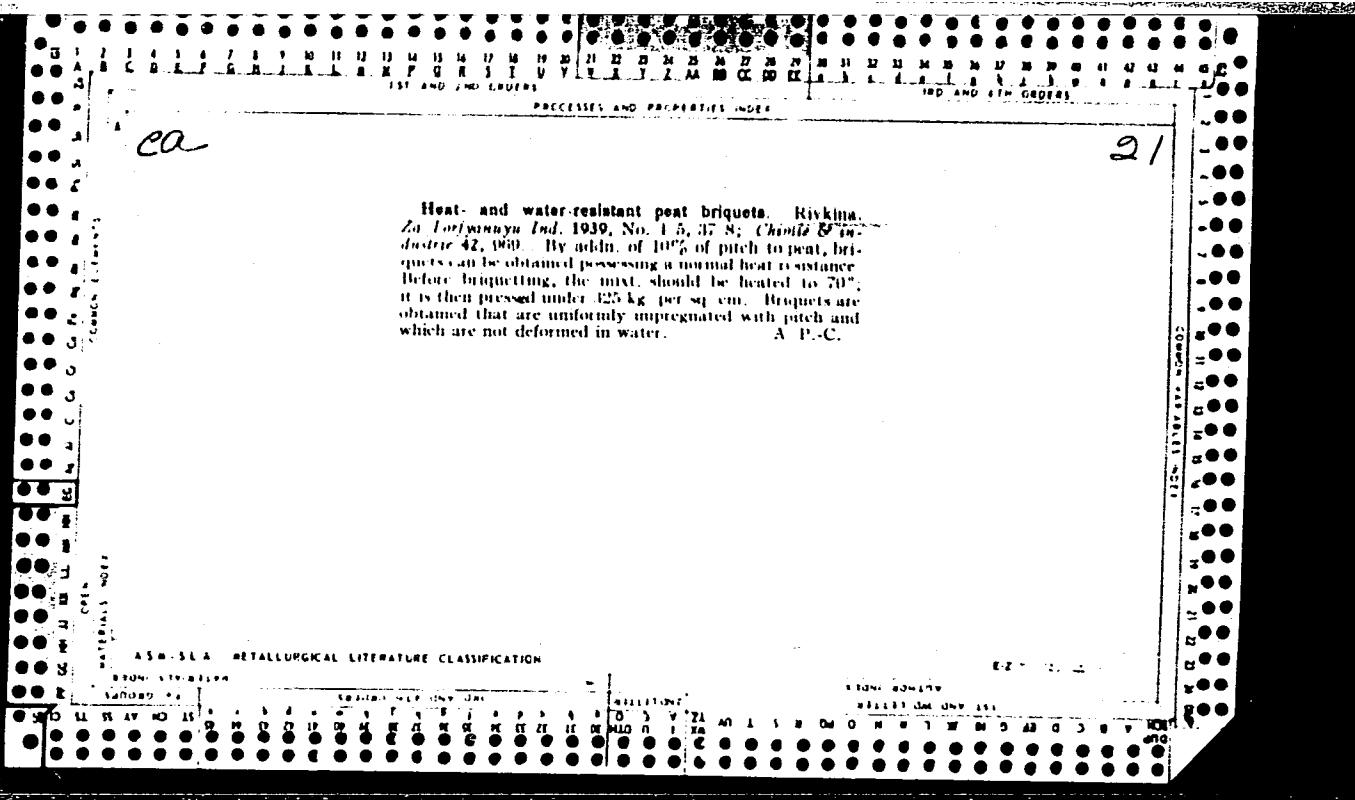
KORNIYENKO, V.S., inzhener; RIVKIN, Yu.M., inzhener; ALEKSEYEV, Ye.K.,  
inzhener; UDOD, V.Ya., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy  
redaktor

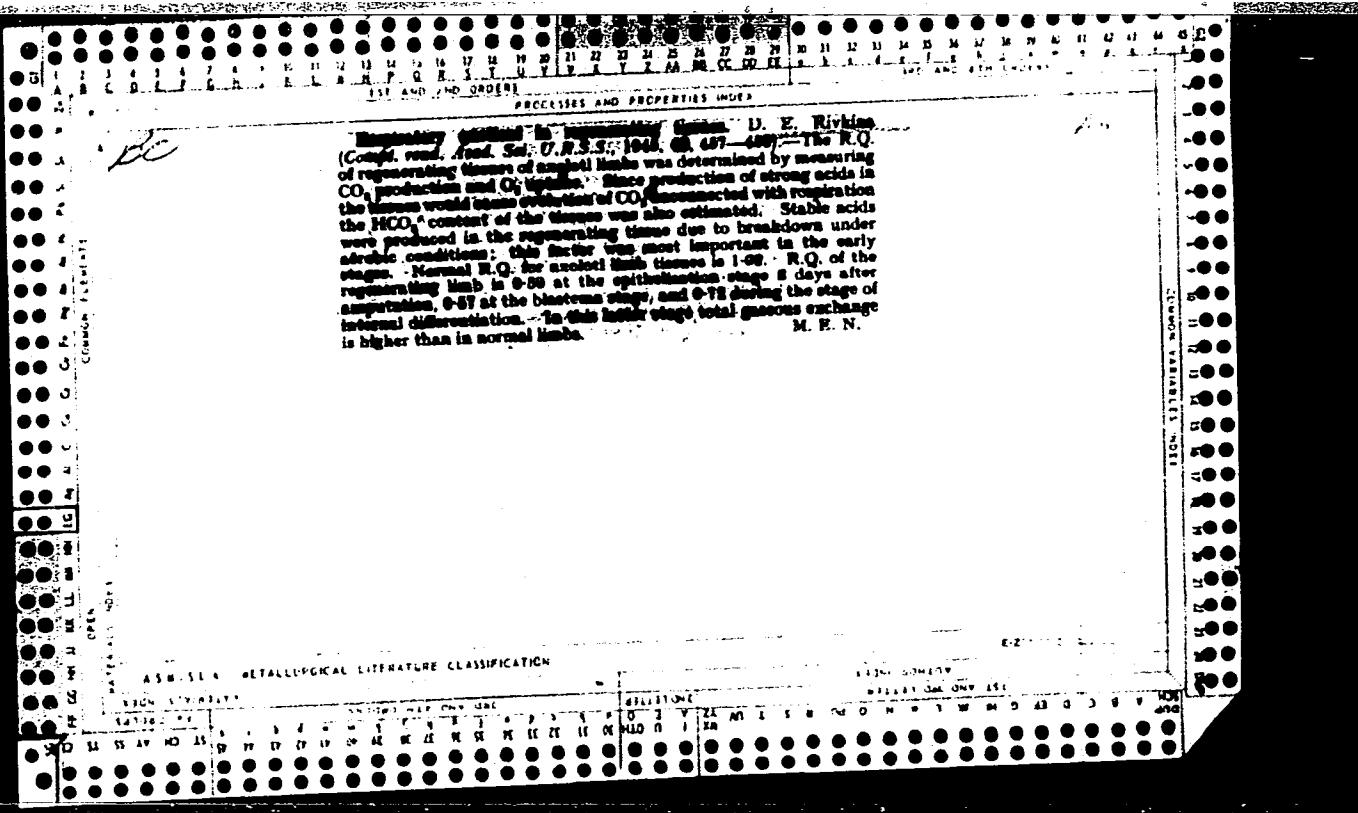
[Electric welder of tanks; a reference manual] Elektrosvarshchik  
rezervuarov; pmiatka posobie. Moskva, Gos. izd-vo lit-ry po stroit.  
i arkhit., 1955. 53 p.  
(MLRA 8:6)  
(Electric welding) (Tanks--Welding)

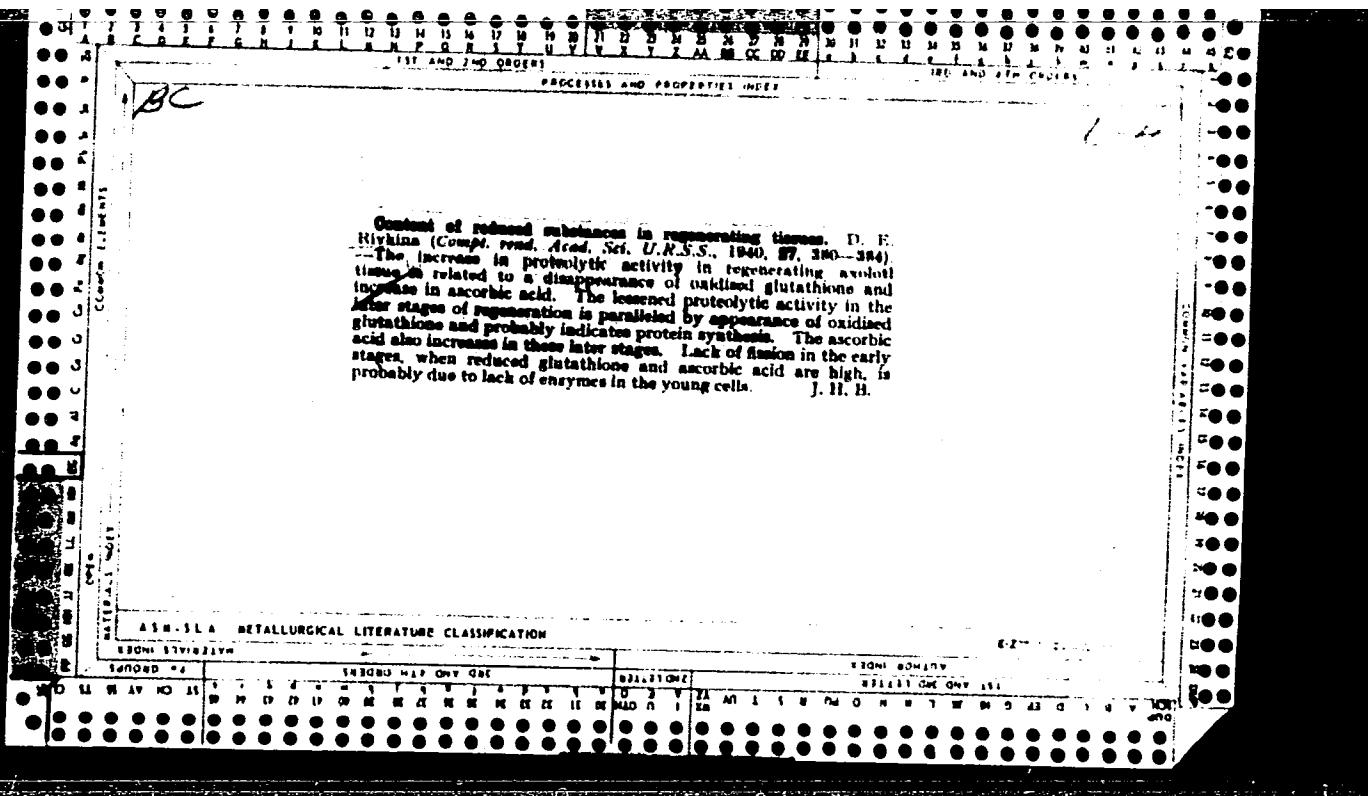
KORNIYENKO, Viktor Stepanovich, inzhener; RIVKIN, Yu.M., inzhener, redaktor;  
UDOD, V.Va., redaktor; TYAPKIN, B.G., redaktor; TOKER, A.M., tekhnicheskiy redaktor.

[Erecting vertical steel storage tanks] Montazh vertikal'nykh stal'-nykh rezervuarov. Moskva, Gos.izd-vo lit-ry po stroy. i arkhitekture, 1956. 263 p. (MLRA 9:6)

(Petroleum--Storage) (Tanks)







KIVKINA-DIE.

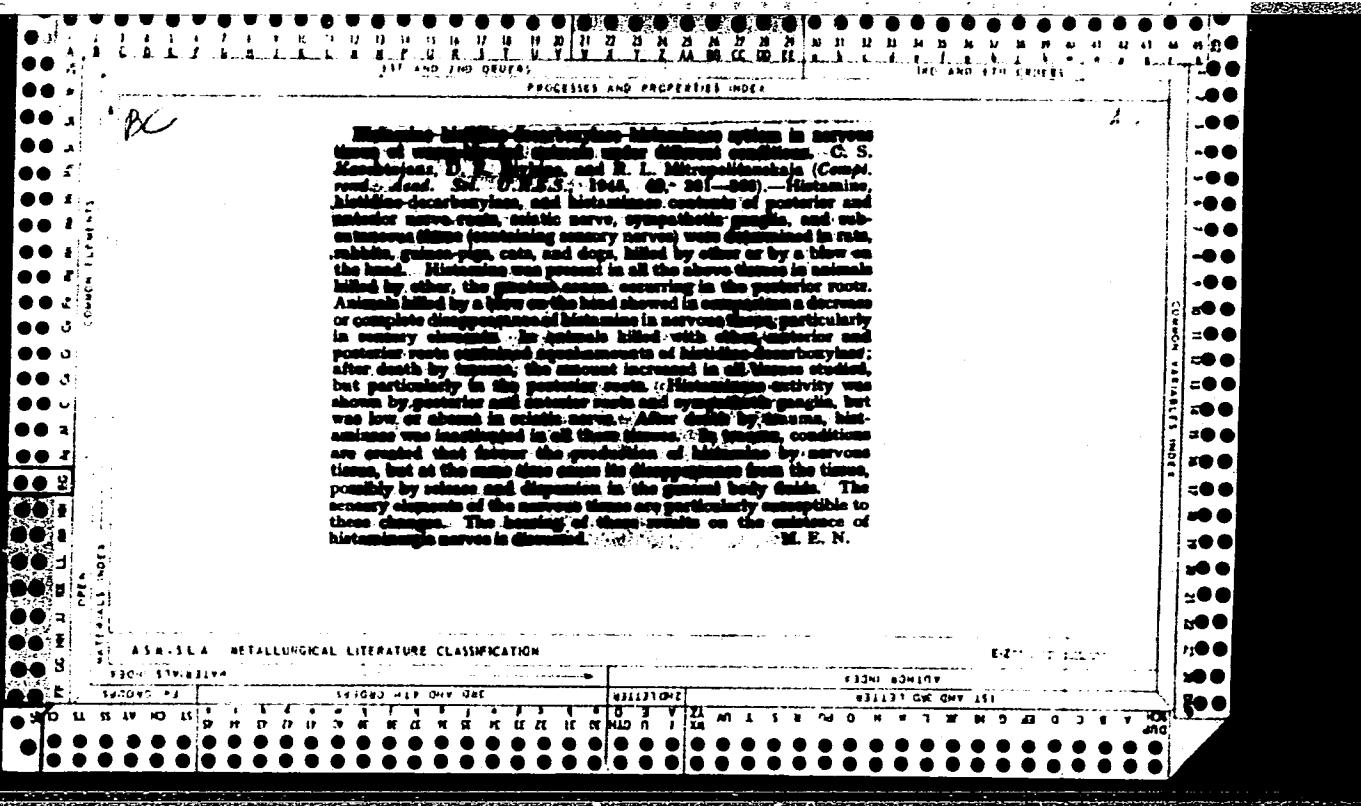
✓ 5925. Influence of histamine on phosphorus metabolism of peripheral nervous system. D. E. Rivkina *Biokhimiya*, 1955, 20, 649-656 (Severtsov Inst. of Animal Morphology, Acad. Sci., Moscow, U.S.S.R.).—In rabbits and guinea pigs, histamine increases

the rate of transfer of  $^{32}\text{PO}_4$  from blood into the peripheral nerves as well as its incorporation into low mol. wt. P compounds within the nerve cells but has little effect on the high mol. wt. fraction. More histamine does not further alter the metabolic equilibrium. *In vitro* histamine increases the absorption of  $\text{O}_2$  and the incorporation of  $^{32}\text{P}$  into the orthophosphate and phosphoprotein fraction of peripheral nerve slices. Electrical stimulation of the sciatic nerve in guinea pigs increases the incorporation of  $^{32}\text{P}$  (injected as  $\text{Na}_2\text{H}^{32}\text{PO}_4$ ) into the stimulated nerve and muscle. Histamine reverses this effect. Histamine has little effect on the P metabolism of brain tissue. (Russian) *A. K. GRZYBOWSKI*.

СИКИНА, О.Е.

Influence of some substances related to the chemical nature of nervous activity and also of thiol poisons on hyaluronidase.

Биохимия. Vol. 17, No. 5, pp 573, 1952.



RIVKINA, D.Ye.

Changes in activity of the diffusion factor due to substances related to  
nerve stimulation. Biokhimiya '52, 17, 25-28. (MLRA 5:3)  
(BA - AIII My '53:599)

ANDREZEN, E.E., professor; LEBEDINSKAYA, E.A.; RIVKINA, Ye.O., kandidat  
meditsinskikh nauk (Leningrad)

Prevention of symblepharon after burns of the eyeball and eyelids.  
Vest. oft. 69 no.5:22-25 S-0 '56. (MIRA 9:12)  
(EYE, dis.  
burns, prev. of symblepharon)

ASIAN STUDIES LITERATURE CLASSIFICATION

• 10.0% • 10.0% •

**APPROVED FOR RELEASE:** Tuesday, August 01, 2000      **CIA-RDP86-00513R0014449**

RIVKINA, Kh. I., kand. tekhn. nauk; ZININA, N. V.; GAVRILENKO, S. A.

Manufacture of feed yeasts based on peat hydrolyzates. Torf.  
prom. 40 no. 3:24-26 '63. (MIRA 16:4)

1. Kalininskiy torfyanoy institut.

(Peat industry—By-products) (Feeds)

ABKHAZI, V.I.; ANTONOV, V.Ya.; BELOKOPYTOV, I.Ye.; VARENTSOV, V.S.; GORYACHKIN, V.G.; ZYUZIN, V.A.; KRYUKOV, M.N.; KUZHMAN, G.I.; OZEROV, B.N.; RIVKINA, Kh.I.; SEMENSKIY, Ye.P.; SOKOLOV, A.A.; SOLOPOV, S.G.; STRELKOV, S.S.; TYUREMNOV, S.N.; CHULYUKOV, M.A.

Sergei Alekseevich Sidiakin. Torf.prom. 38 no.2:40 '61. (MIRA 14:3)  
(Sidiakin, Sergei Alekseevich, 1897-1960)

KURSHAKOVA, G.V.; MARTINSON, T.I.; RIVKINA, Kh.I.; FEDOROV, Al.A.; YAKIMOV, F.A.

Rhododendron aureum Georgi (Rh. chrysanthum Pall.) and its possible  
use as a tannin plant. Trudy Bot. inst. Ser. 5 no.9:291-302 '61.  
(MIRA 15:1)

(Sayan Mountains--Rhododendron) (Tannins)

RIVKINA, Kh.I., kand.tekhn.nauk

Products from peat and their utilization in the national economy. Report  
No.1. Torf.prom. 36 no.1:18-21 '59. (MIRA 12:3)

1. Kiyevskiy torfyanoy institut.  
(Peat industry--By-products)

RIVKINA, Kh.I., kand.tekhn.nauk

Products of peat processing and their utilization in national economy. Report No.2. Torf.prom. 36 no.2:8-12 '59.  
(MIRA 12:4)

1. Kiyevskiy torfyanoy institut.  
(Peat industry--By-products)

Rivkin, Kh. I.

3174. EXAMINATION OF TAR FROM PRESSURE GASIFICATION OF PEAT.  
Rakovskii, V.E., Rivkin, Kh. I., Semyonovich, S.I. and Klimantseva, T.D. *FU*  
(Izdat. Nauk. Trud. Inst. Teplo. Moscow Peat Inst.), 1953, (2), 136-148.  
abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1955, (19), 44091). The  
tar differs from ordinary peat tar in containing oils which boil off at 180°C.  
Deep extraction of oils is obtained by distillation, leaving a residue of only  
15-17% pitch. The tar contains more basic than carbon acid volatiles and has  
little corrosive effect on ferrous metals. It is thermally stable, so that  
distillation conditions do not appreciably affect yields of phenols. This is  
also evidence that it has a minimum content of di- and polyhydric phenols.  
Dephencelization of the oil should be carried out with 10% alkali at a ratio of  
1:1. Removal of oils from the phenol should be done by blowing off the oils  
at 180°C.

(3)

JM  
JW

RIVKINA, Kh.I., kand.tekhn.nauk; KUL'KOVA, V.V.

Oxalic acid from peat. Torf. prom. 38 no.7:14-17 '61.  
(MIRA 14:12)

1. Kalininskiy torfyanoy institut.  
(Oxalic acid)  
(Peat)

MAYZENBERG, M.M., inzh.; RAKOVSKIY, V.Ye., doktor tekhn.nauk;  
RIVKINA, Kh.I., kand.tekhn.nauk; KUNIN, A.M., kand.tekhn.nauk

Synthesis of resol resin by the condensation of peat phenols  
with formaldehyde in an oil medium. Torf. prom. 38 no.8:24-  
25 '61. (MIRA 14:12)

1. Kalininskiy torfyanoy institut (for Kunin).  
(Phenol condensation products)  
(Peat)

RIVKINA, Kh.I., kand.tekhn.nauk; KUL'KOVA, N.V.

Production of metallurgical coke from peat. Torf. prom.  
38 no.5:26-31 '61. (MIRA 14:10)

1. Kalininckiy torfyanoy institut.  
(Coke) (Peat)

GUBAREVA, T. V., Author, U.S.S.R.

Heat-alkali reagent and its production. Trud, VINITI no.8,90-99  
(MIRA 17;9)

IVASHEV, V.V.; RIVLIN, L.B., redaktor; ZABRODINA, A.A., tekhnicheskiy  
redaktor

[Repair of transformers] Remont transformatorov. Izd. 2. Moskva,  
Gos. energ. izd-vo, 1954. 239 p. (MIRA 7:10)  
(Electric transformers--Repairing)

RIVLIN, L.B.

ZIMIN, Vladimir Ivanovich; KAPLAN, Moisey Yakovlevich; PALEY, Anna  
Markovna; RABINOVICH, Isay Natanovich; FEDOROV, Vasiliy Petrovich;  
KHAKKEN, Petr Andreyevich; RIVLIN, L.B., redaktor; VORONETSKAYA,  
L.V., tekhnicheskij redaktor.

[Windings of electric machinery] Obmotki elektricheskikh mashin.  
Izd. 4-e, perer. Moskva, Gos. energ. izd-vo, 1954. 575 p.  
(Electric machinery) (MIRA 8:1)

ZHERVE, Georgiy Konstantinovich; RIVLIN, L.B., redaktor; ZABRODINA,  
A.A., tekhnicheskly redaktor.

[Testing of electric machinery and transformers; manual for  
workers in rural elektrification] Ispytanie elektricheskikh  
mashin i transformatorov; rukovodstvo dlia rabotnikov sel'-  
skokhoziaistvennoi elektrifikatsii. Moskva, Gos.energ. izd-vo  
1955. 199 p. (MLRA 8:12)

(Electric machinery--Testing)

ZHERVE, Georgiy Konstantinovich; RIVLIN, L.B., redaktor; ZABROD'NA, A.A.,  
tekhnicheskiy redaktor.

[Electrician's manual for testing electric machines] Rukovodstvo  
dlia elektromonterov po ispytaniyu elektricheskikh mashin.  
Moskva, Gos.energ.izd-vo, 1955. 283 p. (MLRA 8:12)  
(Electric machinery--Testing)

RIVKINA, L.V.

Treatment of trichinosis with butadione. Zdrav. Belor. 6 no.9:68  
S '60. (MIRA 13:9)

1. Otdelencheskaya bol'nitsa stantsii Gomel' Belorusskoy zheleznoy  
dorogi (nachal'nik bol'nitsy A.I. Tyufiyayeva).  
(TRICHINA AND TRICHLINOSIS) (PYRAZOLIDINEDIONE)

Rivkina, Kh. I.

Optimum moisture content in leather prior to cutting. N.  
I. Punenkov and Kh. I. Rivkina. *Lezgaya Prom.* 14, No.  
8, 40-1(1954).—Limitation of moisture content to 10% in  
Russian specifications restricts the use of leathers with a  
higher moisture content. In order to overcome this draw-  
back, the specifications should be amended to include a  
shrinkage factor. B. Z. Kamich